

Chapter 8. State Indicators

8-5 Eighth Grade Mathematics Performance

Description

This indicator represents the average score in mathematics of each state's eighth grade public school students on the National Assessment of Educational Progress (NAEP). The NAEP mathematics assessment is a congressionally authorized measure of student performance that is conducted by the National Center for Education Statistics. It measures students' knowledge and skills in mathematics and their ability to apply that knowledge in the content areas of number properties and operations; measurement; geometry; data analysis, statistics, and probability; and algebra. Student performance is presented in terms of average scores on a scale from 0 to 500.

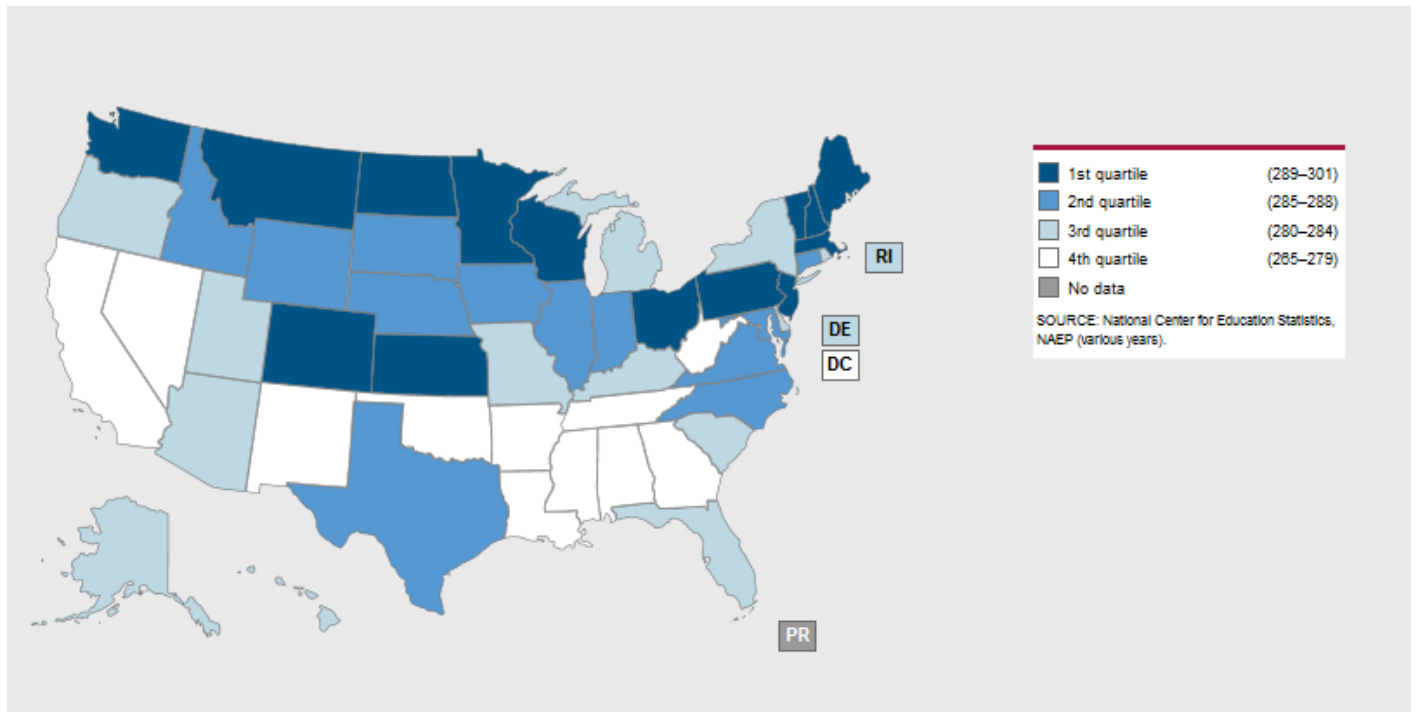
Approximately 164,600 eighth grade students in 6,200 schools participated in the 2013 NAEP mathematics assessment. All 50 states and the District of Columbia participated in the 2013 NAEP mathematics assessment. Students with disabilities or limited English-language proficiency were allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered.

Findings

- The 2013 nationwide average mathematics score of eighth grade students was the highest ever at 284, up from 276 in 2003.
- Relative to 2003, none of the statewide average scores were lower in 2013; almost all scores were higher in 2013. Statewide average scores in Connecticut, Iowa, Michigan, New York, Oregon, and South Carolina were not significantly different in 2013 than in 2003.
- Demographic performance gaps are barely shrinking. White students' average score in 2013 was 293 compared to 263 for black students, a 30-point gap compared to a 35-point gap in 2003. Hispanic students' average score was 271, a gap of 22 points compared to a 29-point gap in 2003.
- Asian and Pacific Islander students had an average national score of 306, compared with the average national score of white students of 293. This difference of 13 points was more than the difference between groups in 2003 of 2 points (287 for white students and 289 for Asian and Pacific Islander students).

8-5 Eighth Grade Mathematics Performance

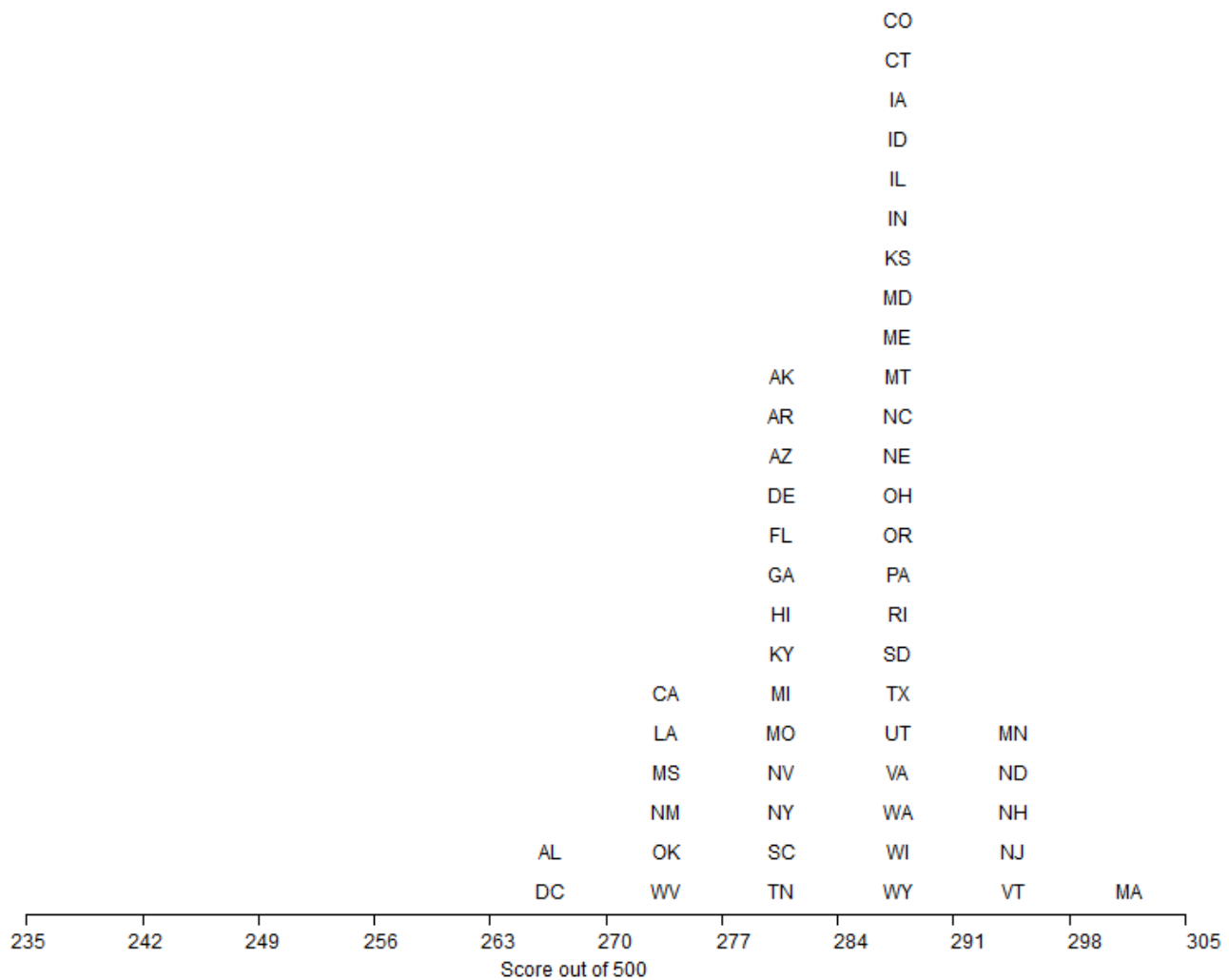
Year: 2013



8-5 Eighth Grade Mathematics Performance

Year: 2013

Distribution of states across indicator values



Histograms do not display states with extreme values. Please consult the data tables for exact indicator values for each state.

Chapter 8. State Indicators


Table 8-5 Eighth Grade Mathematics Performance

State	8th grade math performance, all students (Score out of 500)						
	2000	2003	2005	2007	2009	2011	2013
United States	272	276	278	280	282	283	284
Alabama	264	262	262	266	269	269	269
Alaska	NA	279	279	283	283	283	282
Arizona	269	271	274	276	277	279	280
Arkansas	257	266	272	274	276	279	278
California	260	267	269	270	270	273	276
Colorado	NA	283	281	286	287	292	290
Connecticut	281	284	281	282	289	287	285
Delaware	NA	277	281	283	284	283	282
District of Columbia	235	243	245	248	254	260	265
Florida	NA	271	274	277	279	278	281
Georgia	265	270	272	275	278	278	279
Hawaii	262	266	266	269	274	278	281
Idaho	277	280	281	284	287	287	286
Illinois	275	277	278	280	282	283	285
Indiana	281	281	282	285	287	285	288
Iowa	NA	284	284	285	284	285	285
Kansas	283	284	284	290	289	290	290
Kentucky	270	274	274	279	279	282	281
Louisiana	259	266	268	272	272	273	273
Maine	281	282	281	286	286	289	289
Maryland	272	278	278	286	288	288	287
Massachusetts	279	287	292	298	299	299	301
Michigan	277	276	277	277	278	280	280
Minnesota	287	291	290	292	294	295	295

State	8th grade math performance, all students (Score out of 500)						
	2000	2003	2005	2007	2009	2011	2013
Mississippi	254	261	262	265	265	269	271
Missouri	271	279	276	281	286	282	283
Montana	285	286	286	287	292	293	289
Nebraska	280	282	284	284	284	283	285
Nevada	265	268	270	271	274	278	278
New Hampshire	NA	286	285	288	292	292	296
New Jersey	NA	281	284	289	293	294	296
New Mexico	259	263	263	268	270	274	273
New York	271	280	280	280	283	280	282
North Carolina	276	281	282	284	284	286	286
North Dakota	282	287	287	292	293	292	291
Ohio	281	282	283	285	286	289	290
Oklahoma	270	272	271	275	276	279	276
Oregon	280	281	282	284	285	283	284
Pennsylvania	NA	279	281	286	288	286	290
Rhode Island	269	272	272	275	278	283	284
South Carolina	265	277	281	282	280	281	280
South Dakota	NA	285	287	288	291	291	287
Tennessee	262	268	271	274	275	274	278
Texas	273	277	281	286	287	290	288
Utah	274	281	279	281	284	283	284
Vermont	281	286	287	291	293	294	295
Virginia	275	282	284	288	286	289	288
Washington	NA	281	285	285	289	288	290
West Virginia	266	271	269	270	270	273	274
Wisconsin	NA	284	285	286	288	289	289
Wyoming	276	284	282	287	286	288	288
Puerto Rico	NA	NA	NA	NA	NA	NA	NA



8th grade math performance, all students (Score out of 500)							
State	2000	2003	2005	2007	2009	2011	2013
NA = not available.				SOURCE: National Center for Education Statistics, NAEP (various years).			
NOTES: The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports.				<i>Science and Engineering Indicators 2016</i>			